

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
5 April 2001 (05.04.2001)

PCT

(10) International Publication Number  
WO 01/23316 A1

- (51) International Patent Classification<sup>7</sup>: C03C 13/00
- (21) International Application Number: PCT/IT00/00380
- (22) International Filing Date:  
27 September 2000 (27.09.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
MI99A002040 30 September 1999 (30.09.1999) IT
- (71) Applicants (*for all designated States except US*):  
TECHINT COMPAGNIA TECNICA INTERNAZIONALE S.P.A. [IT/IT]; Via Monterosa, 93, I-20149 Milan (IT). POLIGLAS S.A. [ES/ES]; Ctra. de Barcelona Km., 66, Barbera del Valles, Barcelona (ES).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): LA GRECA, Marco [IT/IT]; Via Vittorio Veneto, 9/4, I-20068 Peschiera Borromeo (IT). MASSINI, Roberto [IT/IT]; Via Marchesi, 11, I-24043 Caravaggio (IT). PASALAIGUA HUGUET, Jorge [ES/ES]; Calle Ignasi Sarro', 1, E-43800 Valls Tarragona (ES).
- (74) Agent: SUTTO, Luca; Bugnion S.p.A., Viale Lancetti, 17, I-20158 Milano (IT).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

## Published:

- With international search report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 01/23316 A1

(54) Title: A GLASS FIBER COMPOSITION

(57) Abstract: The invention relates to a biologically-degradable glass fiber composition having good mechanical properties, good workability and in particular fiber-forming-capability features and resistance to humidity. The concentrations expressed in percent by weight for each component being the object of the invention are: SiO<sub>2</sub>: 61 to 66; Al<sub>2</sub>O<sub>3</sub>: 1.1 to 2.1; (CaO+MgO): higher than 9; (Na<sub>2</sub>O+K<sub>2</sub>O): higher than 18; B<sub>2</sub>O<sub>3</sub>: 4 to 15; P<sub>2</sub>O<sub>5</sub>: 0 to 5; SO<sub>3</sub>: 0 to 1; Fe<sub>2</sub>O<sub>3</sub>: 0 to 0.5; Others: less than 2.